

**THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE  
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:**

- 5 1. A method of stabilizing a downhole drilling motor,  
comprising the steps of:  
    securing a plurality of vanes to an exterior surface of  
a stator housing of the drilling motor; and  
    passing a flow of drilling fluids past the exterior  
10 surface of the stator housing between the vanes to create an  
area of pressure differential and using such pressure  
differential to protect the stator housing from becoming  
differentially stuck while drilling.
- 15 2. A downhole drilling motor, comprising:  
    a stator housing having an exterior surface with vanes.
3. The downhole drilling motor as defined in Claim 2, wherein  
the exterior surface has a vane mounting region on which are  
20 positioned threads, and the vanes are secured to mounting  
sleeves, each mounting sleeve having an internal surface on  
which are positioned threads, the threads of the mounting  
sleeve being coupled with the threads of the vane mounting  
region to maintain the vanes in position.